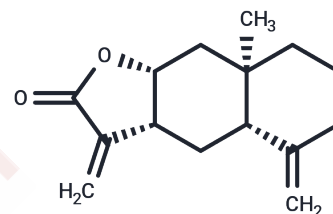


## Isoalantolactone

## Chemical Properties

CAS No. :	470-17-7
Formula:	C <sub>15</sub> H <sub>20</sub> O <sub>2</sub>
Molecular Weight:	232.32
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Isoalantolactone (Isohelenin), isolated from <i>Inula</i> spp., can inhibit the growth of several types of Y cells.
Targets(IC50)	Apoptosis,Endogenous Metabolite,Antibacterial,Autophagy

## Solubility Information

Solubility	DMSO: 83.33 mg/mL (358.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.61 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3044 mL	21.522 mL	43.0441 mL
5 mM	0.8609 mL	4.3044 mL	8.6088 mL
10 mM	0.4304 mL	2.1522 mL	4.3044 mL
50 mM	0.0861 mL	0.4304 mL	0.8609 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Di W, et al. *Oncol Rep.* 2014 Oct;32(4):1585-93.

Ding Y, Song Y, Wu Y, et al. Isoalantolactone suppresses LPS-induced inflammation by inhibiting TRAF6 ubiquitination and alleviates acute lung injury. *Acta Pharmacologica Sinica.* 2019, 40(1): 64-74

Ding, Yun-he, Yun-duan Song, Ya-xian Wu, Hui-qiong He, Tian-hong Yu, Yu-dong Hu, De-peng Zhang et al. Isoalantolactone suppresses LPS-induced inflammation by inhibiting TRAF6 ubiquitination and alleviates acute lung injury [J]. *Acta pharmacologica Sinica.* 2019 Jan;40(1):64-74.

Cheng M, Yan X, Wu Y, et al. Qingke Pingchuan granules alleviate airway inflammation in COPD exacerbation by inhibiting neutrophil extracellular traps in mice. *Phytomedicine.* 2024: 156283.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481